



AUTOCLAVE APPARATUS (TOUCH SCREEN VERSION)

Standard: ASTM C151/C490, AASHTO T 107

Expansion Of Portland Cement

Autoclave Apparatus is used to determine the stability of cement in high-pressure steam environments. This equipment is suitable for testing silicate, slag silicate, pozzolanic, fly ash and other types of cement that may experience uneven volume changes due to the hydration of magnesium silicate.

Features :-

- 4.3-inch touch screen control, built-in operating system.
- Made of all stainless steel, resistant to oxidation and corrosion.
- High-temperature pressure sensors with PID control for process, fully automated software.
- PLC collects pressure & controls the cooling fan.
- PT100 temperature sensor.
- USB one-click automatic upgrade.

Technical Specifications :

Model Number	NL 3021 X / 002
Max. Working Pressure	2.5 MPa
Pressure Range	2.0 ± 0.1 MPa
Chamber Volume	≥ 8.5 L
Temperature Range	Room temperature to 220 °C
Holding & Cooling Time	0~99 hours
Control Method	Touch Screen + PLC Control
Pressurization Time	(0~2 ± 0.1 MPa; room temp~215.7 ± 1.3 °C) : ≈ 60 min
Dimension	880 (L) x 540 (W) x 1225 (H) mm
Approx. Weight	107 kg
Input Voltage	220~240 V, 2.2 kW

Unit Consists Of :

Model Number	Parts Description	Qty
NL 3021 X / 002 – 001	PT100 Sensor	1no.
NL 3021 X / 002 – 002	Pressure Sensor	1no.
NL 3021 X / 002 – 003	Seal Ring	5nos
NL 3021 X / 002 – 004	Buffer Tube	1no.
NL 3021 X / 002 – 005	Sample Support	1no.
NL 3021 X / 002 – 006	Mechanical Pressure Gauge	1no.
NL 3021 X / 002 – 007	Wrench	1no.
NL 3021 X / 002 – 008	Power Cord	1no.

*1 Copy of Manual Instructions



Control Panel



Pressure Gauge